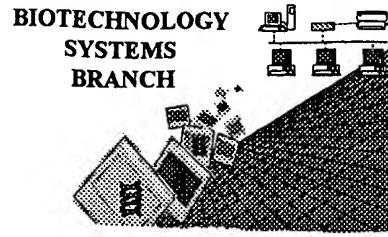


1635

**RAW SEQUENCE LISTING
ERROR REPORT**



RECEIVED
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TECH CENTER 1600/26

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/699,667C
Source: 1600
Date Processed by STIC: 2/10/2003

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER**
VERSION 3.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>), EFS Submission User Manual- ePAVE)
2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. Hand Carry directly to:
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
Or
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 01/29/2002



1600

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/699,667C

DATE: 02/10/2003

TIME: 14:31:38

Input Set : A:\85761-25 Seq 19-12-02 v2.txt
 Output Set: N:\CRF4\02102003\I699667C.raw

3 <110> APPLICANT: Perreault, Jean-Pierre
 4 Ananvoranich, Sirlinart
 5 Lafontaine, Daniel
 6 Universite de Sherbrooke
 8 <120> TITLE OF INVENTION: Nucleic Acid Enzyme for RNA Cleavage
 10 <130> FILE REFERENCE: 77473-5, 258/235
 12 <140> CURRENT APPLICATION NUMBER: US/09/699,667C
 13 <141> CURRENT FILING DATE: 2001-10-30
 15 <150> PRIOR APPLICATION NUMBER: PCT/CA99/00391
 16 <151> PRIOR FILING DATE: 1999-04-29
 18 <160> NUMBER OF SEQ ID NOS: 60
 20 <170> SOFTWARE: PatentIn Ver. 2.0
 22 <210> SEQ ID NO: 1
 23 <211> LENGTH: 11
 24 <212> TYPE: RNA DNA
 25 <213> ORGANISM: Artificial Sequence
 27 <220> FEATURE:
 28 <223> OTHER INFORMATION: Description of Artificial Sequence: nucleotide
 29 sequence comprised of ribonucleotides or a
 30 combination of ribonucleotides and
 31 deoxyribonucleotides
 33 <220> FEATURE:
 34 <221> NAME/KEY: misc_feature
 35 <222> LOCATION: (1) ... (11)
 36 <223> OTHER INFORMATION: n is a or g or c or t/u, unknown, or other
 38 <400> SEQUENCE: 1

 W--> 39 nnrhhgnhn n
 41 <210> SEQ ID NO: 2
 42 <211> LENGTH: 11
 43 <212> TYPE: RNA DNA
 44 <213> ORGANISM: Artificial Sequence
 46 <220> FEATURE:
 47 <223> OTHER INFORMATION: Description of Artificial Sequence: nucleotide
 48 sequence comprised of ribonucleotides or a
 49 combination of ribonucleotides and
 50 deoxyribonucleotides
 52 <220> FEATURE:
 53 <221> NAME/KEY: misc_feature
 54 <222> LOCATION: (6) ... (11)
 55 <223> OTHER INFORMATION: n is a or g or c or t/u, unknown, or other
 57 <400> SEQUENCE: 2

 W--> 58 rrrhhgnhn n
 60 <210> SEQ ID NO: 3

Does Not Comply
 Corrected Diskette Needed

ppr 1-3

if the sequence is a
 combination DNA/RNA, the
 <212> response must be DNA.

See 1.823

Sequence
 Rules

11

11

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/699,667C

DATE: 02/10/2003
TIME: 14:31:38

Input Set : A:\85761-25 Seq 19-12-02 v2.txt
Output Set: N:\CRF4\02102003\I699667C.raw

61 <211> LENGTH: 11
62 <212> TYPE: RNA
63 <213> ORGANISM: Artificial Sequence
65 <220> FEATURE:
66 <223> OTHER INFORMATION: Description of Artificial Sequence: nucleotide
67 sequence comprised of ribonucleotides or a
68 combination of ribonucleotides and
69 deoxyribonucleotides

71 <220> FEATURE:
72 <221> NAME/KEY: misc_feature
73 <222> LOCATION: (6) ... (11)
74 <223> OTHER INFORMATION: n is a or g or c or t/u, unknown, or other
76 <400> SEQUENCE: 3

W--> 77 gggcgnnunn n 11
79 <210> SEQ ID NO: 4
80 <211> LENGTH: 11
81 <212> TYPE: RNA
82 <213> ORGANISM: Artificial Sequence
84 <220> FEATURE:
85 <223> OTHER INFORMATION: Description of Artificial Sequence: nucleotide
86 sequence comprised of ribonucleotides or a
87 combination of ribonucleotides and
88 deoxyribonucleotides

90 <220> FEATURE:
91 <221> NAME/KEY: misc_feature
92 <222> LOCATION: (6) ... (11)
93 <223> OTHER INFORMATION: n is a or g or c or t/u, unknown, or other
95 <400> SEQUENCE: 4

W--> 96 gggcgnnhn n 11
98 <210> SEQ ID NO: 5
99 <211> LENGTH: 11
100 <212> TYPE: RNA
101 <213> ORGANISM: Artificial Sequence
103 <220> FEATURE:
104 <223> OTHER INFORMATION: Description of Artificial Sequence: nucleotide
105 sequence comprised of ribonucleotides or a
106 combination of ribonucleotides and
107 deoxyribonucleotides

109 <220> FEATURE:
110 <221> NAME/KEY: misc_feature
111 <222> LOCATION: (6) ... (11)
112 <223> OTHER INFORMATION: n is a or g or c or t/u, unknown, or other
114 <400> SEQUENCE: 5

W--> 115 gggugnnunn n 11
117 <210> SEQ ID NO: 6
118 <211> LENGTH: 12
119 <212> TYPE: RNA
120 <213> ORGANISM: Artificial Sequence
122 <220> FEATURE:

P.3

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/699,667C

DATE: 02/10/2003
TIME: 14:31:38

Input Set : A:\85761-25 Seq 19-12-02 v2.txt
Output Set: N:\CRF4\02102003\I699667C.raw

123 <223> OTHER INFORMATION: Description of Artificial Sequence: nucleotide
124 sequence comprised of ribonucleotides or a
125 combination of ribonucleotides and
126 deoxyribonucleotides

128 <220> FEATURE:
129 <221> NAME/KEY: misc_feature
130 <222> LOCATION: (6) ... (12)
131 <223> OTHER INFORMATION: n is a or g or c or t/u, unknown, or other
133 <400> SEQUENCE: 6
W--> 134 gggugnnncnn nn 12
136 <210> SEQ ID NO: 7
137 <211> LENGTH: 11
138 <212> TYPE: RNA
139 <213> ORGANISM: Artificial Sequence
141 <220> FEATURE:
142 <223> OTHER INFORMATION: Description of Artificial Sequence: nucleotide
143 sequence comprised of ribonucleotides or a
144 combination of ribonucleotides and
145 deoxyribonucleotides

147 <220> FEATURE:
148 <221> NAME/KEY: misc_feature
149 <222> LOCATION: (6) ... (11)
150 <223> OTHER INFORMATION: n is a or g or c or t/u, unknown, or other
152 <400> SEQUENCE: 7
W--> 153 aaacggnnnn n 11
155 <210> SEQ ID NO: 8
156 <211> LENGTH: 11
157 <212> TYPE: RNA
158 <213> ORGANISM: Artificial Sequence
160 <220> FEATURE:
161 <223> OTHER INFORMATION: Description of Artificial Sequence: nucleotide
162 sequence comprised of ribonucleotides or a
163 combination of ribonucleotides and
164 deoxyribonucleotides

166 <220> FEATURE:
167 <221> NAME/KEY: misc_feature
168 <222> LOCATION: (6) ... (11)
169 <223> OTHER INFORMATION: n is a or g or c or t/u, unknown, or other
171 <400> SEQUENCE: 8
W--> 172 yhrhggnhn n 11
174 <210> SEQ ID NO: 9
175 <211> LENGTH: 11
176 <212> TYPE: RNA
177 <213> ORGANISM: Artificial Sequence
179 <220> FEATURE:
180 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic RNA
181 sequence
183 <400> SEQUENCE: 9
184 gggcgggucg g 11

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/699,667C

DATE: 02/10/2003
TIME: 14:31:38

Input Set : A:\85761-25 Seq 19-12-02 v2.txt
Output Set: N:\CRF4\02102003\I699667C.raw

186 <210> SEQ ID NO: 10
187 <211> LENGTH: 10
188 <212> TYPE: RNA
189 <213> ORGANISM: Artificial Sequence
191 <220> FEATURE:
192 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic RNA
193 sequence
195 <400> SEQUENCE: 10
196 gggcgggguucg 10
198 <210> SEQ ID NO: 11
199 <211> LENGTH: 11
200 <212> TYPE: RNA
201 <213> ORGANISM: Artificial Sequence
203 <220> FEATURE:
204 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic RNA
205 sequence
207 <400> SEQUENCE: 11
208 gggcaggucg g 11
210 <210> SEQ ID NO: 12
211 <211> LENGTH: 11
212 <212> TYPE: RNA
213 <213> ORGANISM: Artificial Sequence
215 <220> FEATURE:
216 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic RNA
217 sequence
219 <400> SEQUENCE: 12
220 gggccggguucg g 11
222 <210> SEQ ID NO: 13
223 <211> LENGTH: 11
224 <212> TYPE: RNA
225 <213> ORGANISM: Artificial Sequence
227 <220> FEATURE:
228 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic RNA
229 sequence
231 <400> SEQUENCE: 13
232 gggcgagucg g 11
234 <210> SEQ ID NO: 14
235 <211> LENGTH: 11
236 <212> TYPE: RNA
237 <213> ORGANISM: Artificial Sequence
239 <220> FEATURE:
240 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic RNA
241 sequence
243 <400> SEQUENCE: 14
244 gggcgugucg g 11
246 <210> SEQ ID NO: 15
247 <211> LENGTH: 11
248 <212> TYPE: RNA
249 <213> ORGANISM: Artificial Sequence

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/699,667C

DATE: 02/10/2003
TIME: 14:31:38

Input Set : A:\85761-25 Seq 19-12-02 v2.txt
Output Set: N:\CRF4\02102003\I699667C.raw

251 <220> FEATURE:
252 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic RNA
253 sequence
255 <400> SEQUENCE: 15
256 gggcggaucg g 11
258 <210> SEQ ID NO: 16
259 <211> LENGTH: 11
260 <212> TYPE: RNA
261 <213> ORGANISM: Artificial Sequence
263 <220> FEATURE:
264 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic RNA
265 sequence
267 <400> SEQUENCE: 16
268 gggcgguucg g 11
270 <210> SEQ ID NO: 17
271 <211> LENGTH: 11
272 <212> TYPE: RNA
273 <213> ORGANISM: Artificial Sequence
275 <220> FEATURE:
276 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic RNA
277 sequence
279 <400> SEQUENCE: 17
280 gggcgggccg g 11
282 <210> SEQ ID NO: 18
283 <211> LENGTH: 11
284 <212> TYPE: RNA
285 <213> ORGANISM: Artificial Sequence
287 <220> FEATURE:
288 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic RNA
289 sequence
291 <400> SEQUENCE: 18
292 gggcggggcg g 11
294 <210> SEQ ID NO: 19
295 <211> LENGTH: 11
296 <212> TYPE: RNA
297 <213> ORGANISM: Artificial Sequence
299 <220> FEATURE:
300 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic RNA
301 sequence
303 <400> SEQUENCE: 19
304 gggcggguaag g 11
306 <210> SEQ ID NO: 20
307 <211> LENGTH: 11
308 <212> TYPE: RNA
309 <213> ORGANISM: Artificial Sequence
311 <220> FEATURE:
312 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic RNA
313 sequence
315 <400> SEQUENCE: 20

RAW SEQUENCE LISTING ERROR SUMMARY
 PATENT APPLICATION: US/09/699,667C

DATE: 02/10/2003
 TIME: 14:31:39

Input Set : A:\85761-25 Seq 19-12-02 v2.txt
 Output Set: N:\CRF4\02102003\I699667C.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 1,2,6,7,9,10,11
 Seq#:2; N Pos. 6,7,9,10,11
 Seq#:3; N Pos. 6,7,9,10,11
 Seq#:4; N Pos. 6,7,9,10,11
 Seq#:5; N Pos. 6,7,9,10,11
 Seq#:6; N Pos. 6,7,9,10,11,12
 Seq#:7; N Pos. 6,7,9,10,11
 Seq#:8; N Pos. 6,7,9,10,11

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 1,2,3,4,5,6,7,8,9,10,11,13,14,15,16,17,18,19,20,21,22,23,24
 Seq#:1; Line(s) 25,26,27,28,29,30,33,36,37,38,39,40,41
 Seq#:2; Line(s) 42,43,46,47,48,49,52,55,56,57,58,59,60
 Seq#:3; Line(s) 61,62,65,66,67,68,71,74,75,76,77,78,79
 Seq#:4; Line(s) 80,81,84,85,86,87,89,90,93,94,95,96,97,98
 Seq#:5; Line(s) 99,100,101,103,104,105,106,107,109,112,113,114,115,116,117
 Seq#:6; Line(s) 118,119,120,122,123,124,125,126,128,131,132,133,134,135,136
 Seq#:7; Line(s) 137,138,141,142,143,144,147,150,151,152,153,154,155
 Seq#:8; Line(s) 156,157,158,160,161,162,163,164,166,169,170,171,172,173,174
 Seq#:9; Line(s) 175,176,177,178,179,180,181,182,183,184,185,186
 Seq#:10; Line(s) 187,188,189,190,191,192,193,194,195,196,197,198
 Seq#:11; Line(s) 199,200,201,202,203,204,205,206,207,208,209,210
 Seq#:12; Line(s) 211,212,213,214,215,216,217,218,219,220,221,222
 Seq#:13; Line(s) 223,224,225,226,227,228,229,230,231,232,233,234
 Seq#:14; Line(s) 235,236,237,238,239,240,241,242,243,244,245,246
 Seq#:15; Line(s) 247,248,249,250,251,252,253,254,255,256,257,258
 Seq#:16; Line(s) 259,260,261,262,263,264,265,266,267,268,269,270
 Seq#:17; Line(s) 271,272,273,274,275,276,277,278,279,280,281,282
 Seq#:18; Line(s) 283,284,285,286,287,288,289,290,291,292,293,294
 Seq#:19; Line(s) 295,296,297,298,299,300,301,302,303,304,305,306
 Seq#:20; Line(s) 307,308,309,310,311,312,313,314,315,316,317,318
 Seq#:21; Line(s) 319,320,321,322,323,324,325,326,327,328,329,330
 Seq#:22; Line(s) 331,332,333,334,335,336,337,338,339,340,341,342
 Seq#:23; Line(s) 343,344,345,346,347,348,349,350,351,352,353,354
 Seq#:24; Line(s) 355,356,357,358,359,360,361,362,363,364,365,366
 Seq#:25; Line(s) 367,368,369,370,371,372,373,374,375,376,377,378
 Seq#:26; Line(s) 379,380,381,382,383,384,385,386,387,388,389,390
 Seq#:27; Line(s) 391,392,393,394,395,396,397,398,399,400,401,402
 Seq#:28; Line(s) 403,404,405,406,407,408,409,410,411,412,413,414
 Seq#:29; Line(s) 415,416,417,418,419,420,421,422,423,424,425,426
 Seq#:30; Line(s) 427,428,429,430,431,432,433,434,435,436,437,438